CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.01/BMS/1/751a/CEMENT/2014-15

Date: 20.02.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. B.M. Srinivas,** No.17, Kurubarahalli Main Road, Mahalakshmipuram (Post), Bangalore.
*NAME OF THE WORK	:	Construction of CC road at yelahanka old post office road opposite to Rajkumar house road and yelahanka old town in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
*REFERENCE	:	AEE/BBMP/YSD/AE-1/2014-15 Dated: 30.01.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	18.02.2015
PERIOD OF TESTING	:	18.02.2015 to 20.02.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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****

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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.01/BMS/1/751a/SAND-Gradation/2014-15 : 20.02.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.M. Srinivas,** No.17, Kurubarahalli Main Road, Mahalakshmipuram (Post), Bangalore.
* Name of Work	: Construction of CC road at yelahanka old post office road opposite to Rajkumar house road and yelahanka old town in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/YSD/AE-1/2014-15 Dated: 30.01.2015
Technical Reference	: IS : 2386 Part 1 - 1963 RA-2007
Sample ID	: Fine Aggregates
Sample Received on	: 18.02.2015
Date of Testing	: 20.02.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.10	90-100	90-100	90-100	95-100
2.36	77.90	60-95	75-100	85-100	95-100
1.18	56.30	30-70	55-90	75-100	90-100
600 Micron	30.50	15-34	35-59	60-79	80-100
300 Micron	17.60	5-20	8-30	12-40	15-50
150 Micron	5.40	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.01/BMS/1/751a/AGG/GR/2014-15 : 20.02.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.M. Srinivas,** No.17, Kurubarahalli Main Road, Mahalakshmipuram (Post), Bangalore.
* Name of Work	: Construction of CC road at yelahanka old post office road opposite to Rajkumar house road and yelahanka old town in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/YSD/AE-1/2014-15 Dated: 30.01.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 18.02.2015
Date of Testing	: 20.02.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.80	95-100	85-100
20	37.90	30-70	0-20
10	12.45	10-35	0-5
4.75	2.76	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.01/BMS/1/751a/AGG/GR/2014-15 : 20.02.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.M. Srinivas,** No.17, Kurubarahalli Main Road, Mahalakshmipuram (Post), Bangalore.
* Name of Work	: Construction of CC road at yelahanka old post office road opposite to Rajkumar house road and yelahanka old town in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/YSD/AE-1/2014-15 Dated: 30.01.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (20mm)
Sample Received on	: 18.02.2015
Date of Testing	: 20.02.2015

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	97.20	95-100	85-100
10	44.04	25-55	0-20
4.75	3.54	0-10	0-5

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Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/W.No.01/BMS/STEEL/2014-15 23.02.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	**Mr. B.M. Srinivas,** No.17, Kurubarahalli Main Road, Mahalakshmipuram (Post), Bangalore.
Name of the work	:	Construction of CC road at yelahanka old post office road opposite to Rajkumar house road and yelahanka old town in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/YSD/AE-1/2014-15 Dated: 30.01.2015
Date of Test	:	23.02.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	510	552	13.05	O.K	O.K

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Job No.: CTCE/BBMP/W.No.01/BMS/STEEL/2014-15 23.02.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	**Mr. B.M. Srinivas,** No.17, Kurubarahalli Main Road, Mahalakshmipuram (Post), Bangalore.
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Reference	:	AEE/BBMP/YSD/AE-1/2014-15 Dated: 30.01.2015
Date of Test	:	23.02.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	556	13.25	O.K	O.K

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TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	**Mr. B.M. Srinivas,** No.17, Kurubarahalli Main Road, Mahalakshmipuram (Post), Bangalore.
Name of the work	:	Construction of CC road at yelahanka old post office road opposite to Rajkumar house road and yelahanka old town in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/YSD/AE-1/2014-15 Dated: 30.01.2015
Date of Test	:	23.02.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	12	0.89	515	558	13.50	O.K	O.K

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Job No.: CTCE/BBMP/W.No.01/BMS/STEEL/2014-15 23.02.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	**Mr. B.M. Srinivas,** No.17, Kurubarahalli Main Road, Mahalakshmipuram (Post), Bangalore.
Name of the work	:	Construction of CC road at yelahanka old post office road opposite to Rajkumar house road and yelahanka old town in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/YSD/AE-1/2014-15 Dated: 30.01.2015
Date of Test	:	23.02.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	16	1.58	520	563	13.70	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/W.No.01/BMS/1/751a/CC Solid Block/2014-15 : 06.03.2015

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer	: **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.M. Srinivas,** No.17, Kurubarahalli Main Road, Mahalakshmipuram (Post), Bangalore.
* Name of the Work	: Construction of CC road at yelahanka old post office road opposite to Rajkumar house road and yelahanka old town in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/YSD/AE-1/2014-15 Dated: 30.01.2015
Sample Received on	: 27.02.2015
Date of Testing	: 06.03.2015
Size of Blocks	: 400mm x 100mm x 200mm
Cross Sectional Area	: 40000 mm^2
Technical Reference	: IS: 2185 (Part 1) - 2005
No. of Blocks Tested	: 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	25.19	128.9	3.22	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	24.55	130.2	3.26	
3	Block 3	24.58	129.3	3.23	
4	Block 4	25.16	130.4	3.26	
5	Block 5	26.52	131.5	3.29	
6	Block 6	24.59	132.6	3.32	
7	Block 7	25.94	130.5	3.26	
8	Block 8	26.98	129.8	3.25	

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Job No.: CTCE/BBMP/W.No.01/BMS/1/751a/Pre Cast Slab/2014-15

24.03.2015

CEMENT CONCRETE CORE (PRE CAST SLAB) TEST REPORT

* Name of Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Name of Agency	:	**Mr. B.M. Srinivas,** No.17, Kurubarahalli Main Road, Mahalakshmipuram (Post), Bangalore.
* Name of work	:	Construction of CC road at yelahanka old post office road opposite to Rajkumar house road and yelahanka old town in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/YSD/AE-1/2014-15 Dated: 30.01.2015
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Sample ID	:	Pre Cast Slab
Sample Received on	:	16.03.2015
Date of Testing	:	24.03.2015

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	78.00	0.385	2513.83	1.56	0.960	25.30	12.89	13.92	13.36	16.70
2	50.00	83.00	0.412	2528.07	1.66	0.970	25.95	13.22	14.27	13.85	17.31
3	50.00	80.00	0.396	2521.01	1.60	0.965	25.60	13.04	14.08	13.59	16.99

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Job No.: CTCE/BBMP/W.No.01/BMS/1/751a/CUBE/2014-15 09.04.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.M. Srinivas,** No.17, Kurubarahalli Main Road, Mahalakshmipuram (Post), Bangalore.
* Name of the work	: Construction of CC road at yelahanka old post office road opposite to Rajkumar house road and yelahanka old town in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: AEE/BBMP/YSD/AE-1/2014-15 Dated: 30.01.2015
* Sample ID	: Culvert Deck Slab Concrete.
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 12.03.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.03.2015	09.04.2015	8.142	480.2	21.34
2	12.03.2015	09.04.2015	8.265	498.6	22.16
3	12.03.2015	09.04.2015	8.396	523.6	23.27

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Building & Highway Material Testing Laboratory

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T-2377

Job No.: CTCE/BBMP/W.No.01/BMS/1/751a/CUBE/2014-15 13.04.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.M. Srinivas,** No.17, Kurubarahalli Main Road, Mahalakshmipuram (Post), Bangalore.
* Name of the work	: Construction of CC road at yelahanka old post office road opposite to Rajkumar house road and yelahanka old town in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: AEE/BBMP/YSD/AE-1/2014-15 Dated: 30.01.2015
* Sample ID	: Road Concrete.
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day
Sample Received on	: 16.03.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.03.2015	13.04.2015	8.426	729.5	32.42
2	16.03.2015	13.04.2015	8.321	722.3	32.10
3	16.03.2015	13.04.2015	8.210	712.2	31.65

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